

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 January 2004 (22.01.2004)

PCT

(10) International Publication Number
WO 2004/006801 A3

(51) International Patent Classification⁷: **A61K 35/60**,
33/32, 33/06, 31/20, 31/07, 47/00

(21) International Application Number:
PCT/US2003/022297

(22) International Filing Date: 17 July 2003 (17.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/396,222 17 July 2002 (17.07.2002) US

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *with international search report*

(88) Date of publication of the international search report:
10 June 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TREATMENT FOR DRY EYE SYNDROME

(57) Abstract: A novel formulation for the treatment of the many underlying inflammatory processes that cause dry eye syndrome. In particular, the formulation, which is orally administered includes the optimal blend of omega-3 and omega-6 essential fatty acids, and nutrient cofactors necessary to enhance the metabolic conversion associated with the tear-specific series E-one anti-inflammatory prostaglandin (PGE1). As used herein, the term "nutrient cofactor" refers to a compound that supports and enhances the conversion of linoleic acid to gamma-linolenic acid. Additionally, the formulation inhibits the production of pro-inflammatory compounds, as well as the growth of viral and bacterial pathogens of the three-layer tear film.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/22297

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 35/60, 33/32, 33/06, 31/20, 31/07, 47/00
US CL : 424/523, 697, 643; 514/558, 912, 915, 725, 777

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 424/523, 697, 643; 514/558, 912, 915, 725, 777

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	US 6,506,412 B2 (TROYER et al.) 14 January 2003 (14.01.2003), entire document.	1-20
Y, P	US 2002/0128191 A1 (SCANNON) 12 September 2002, entire document.	1-20
Y, P	US 6,537,581 B2 (TAO) 25 March 2003 (25.03.2003), entire document.	1-20
Y, P	US 6,585,987 B1 (FRANSONI) 01 July 2003 (01.07.2003), entire document.	1-20
Y	US 6,093,706 A (ZELIGS) 25 July 2000 (26.07.2000), entire document.	1-20

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

18 December 2003 (18.12.2003)

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Date of mailing of the international search report

10 FEB 2004

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INTERNATIONAL SEARCH REPORT

PCT/US03/22297

Continuation of B. FIELDS SEARCHED Item 3:

WEST, DIALOG, MEDLINE, BIOSIS, EMBASE

Dry eye syndrome, omega fatty acid, linolenic acid, lactoferrin, mucin, vitamin ?, curcumin, currant seed, DHEA, inventors